

## Certificate of Analysis

### LudgerPure™ 2AB Labeled MAN5 Glycan

Cat. #: CAB-MAN5-01

Batch: B6C7-01

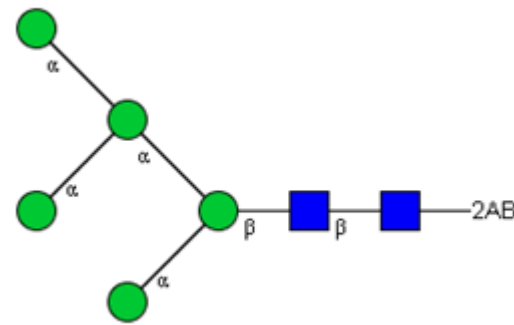
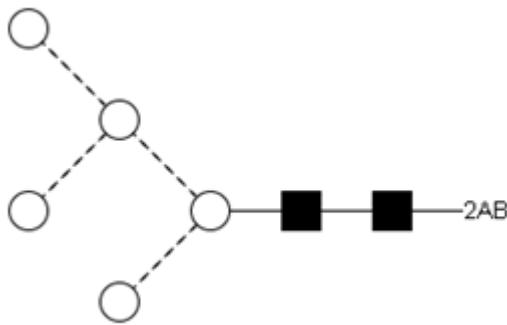
Expiry Date: 07 Dec 2021

Size: approx. 100 pmol

#### Alternative Names

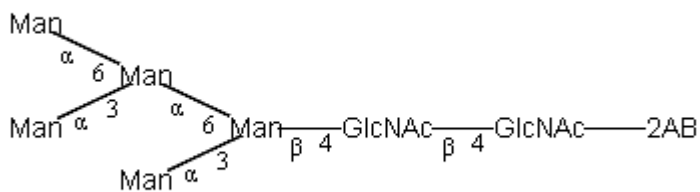
M5

#### Structure



Oxford Notation

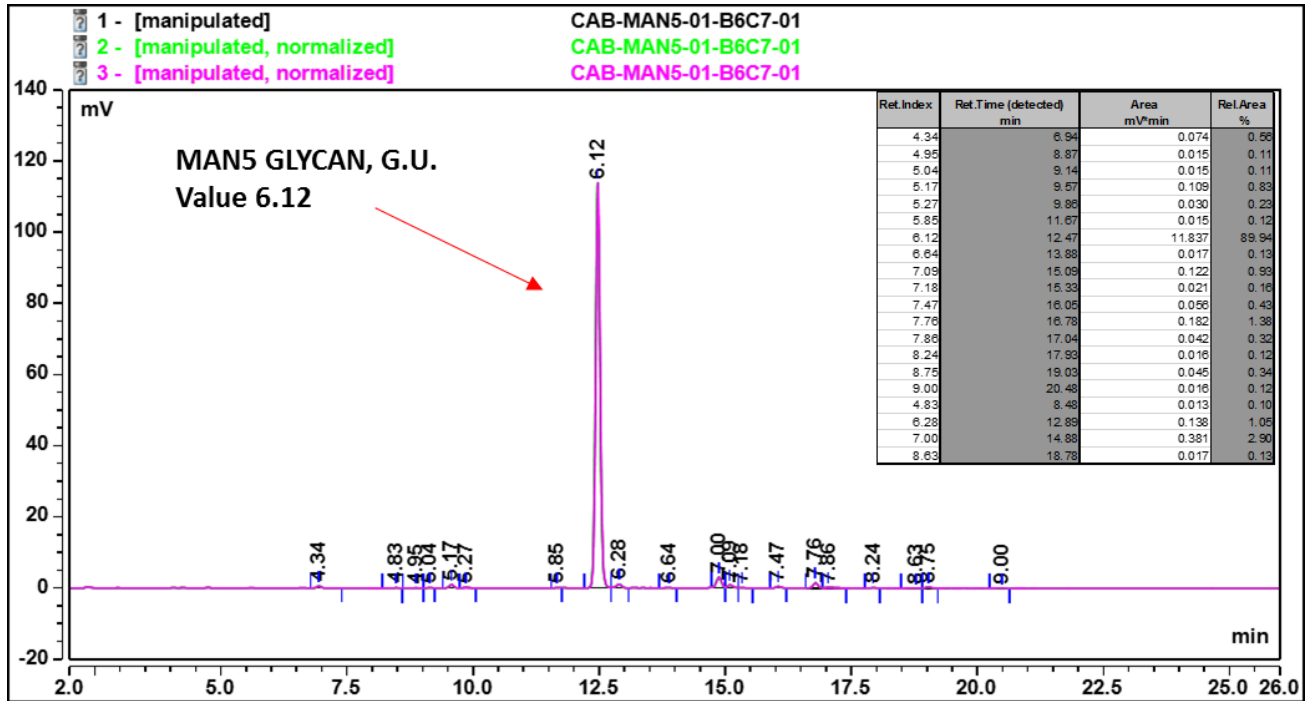
CFG Notation



Text Notation

**Purity:** 89.75% 2AB labeled MAN5 glycan, as assessed by HPLC - see Fig 1.

**Amount:** Sample vial determined to contain 112.9 pmols MAN5 glycan – Test performed 08 DEC 2016.



**Figure 1:** HILIC HPLC profile of 2AB labelled MAN5 glycan (see method conditions below)

(Cat. #: CAB-MAN5-01, Batch B6C7-01).

*\*MAN5 glycan structure identified by MALDI, MS & HPLC (GU value comparison to GlycoBase). This structure is drawn according to the scheme developed by Oxford-Dublin Glycobiology Laboratory (see Fig 2).*

**2-AB MAN5 peak seen above, eluted at 12.4minutes, under the following conditions:**

Column: Waters BEH Glycan 1.7µm column (150mm)

Flow: 0.4mL/min.

Temperature: 60 °C

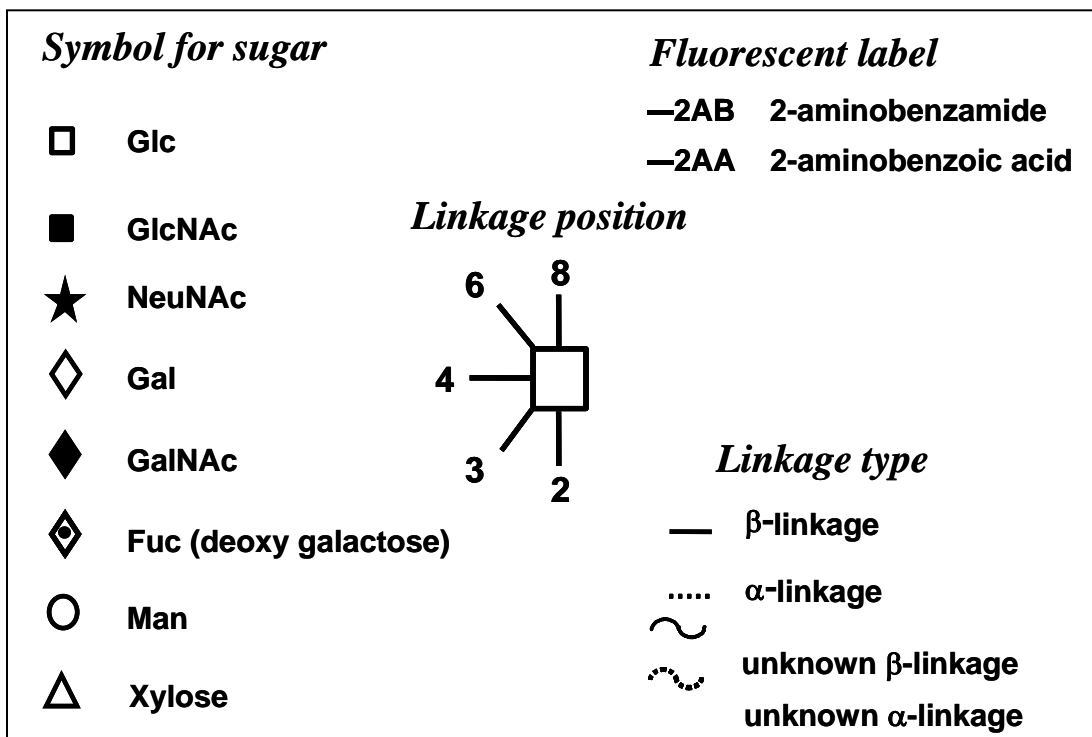
Solvent A: 50mM ammonium formate pH 4.4      Solvent B: 100 % acetonitrile

Gradient:

<b>Time (min)</b>	<b>%B</b>
<b>0.0</b>	<b>72.0</b>
<b>27</b>	<b>62.0</b>
<b>30</b>	<b>100</b>
<b>32</b>	<b>100</b>
<b>33</b>	<b>72</b>
<b>35</b>	<b>72</b>

Detector: Fluorescence      Excitation wavelength: 250 nm

Emission wavelength: 428 nm



**Figure 2:** GlycoBase glycan structure key.